Index of Claims

| Application No.  | Applicant(s) | _ |
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| 10/614,734       | OLSON ET AL. |   |
| Examiner         | Art Unit     |   |
| John M Petruncio | 1751         |   |

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|--------------------------------|------------------|------------------|----------|----------|----------|--------------|----------|--|----------|----------|------|--------------|---------|-----------------|----------|----------|-----------|--------------|--------------|-------------|-------|------------|-----------|----------|----------|--------|----------|----------|-----------------|------------|----------|
| l _ l                          | ਲ                | 2                |          |          |          |              |          | Ш  |          |          |      | <del>,</del> | 1       |                 |          |          |           |              |              |             | _     | ਲ          |           |          |          |        |          |          | l               |            |          |
| Final                          | Original         | Ш.               |          |          |          |              |          |  |          | Final    | .    | Original     |         |                 |          |          |           |              |              | -           | Final | Original   |           |          |          |        |          |          |                 |            |          |
| <u>"</u>                       | ö                | 05               | ŀ        |          |          |              |          |  |          | "        |      | 5            |         |                 |          |          |           |              |              | -           | Œ     | ē          |           |          |          |        |          |          |                 |            |          |
|                                | 1                |                  | ⊢        | +        | ⊢        | ⊢            | $\vdash$ | $\vdash$   | $\dashv$ | $\vdash$ |      | 51           | +       | $\vdash$        | +        | +        | +         | -            | -            | - 1         |       | 101        |           | _        | _        |        | _        | _        | $\dashv$        |            | ᅴ        |
|                                | 2                | $\vdash$         | ╁        | +        | ╁        | ⊢            | $\vdash$ | $\vdash$   | $\dashv$ | -        |      | 52           | +       | $\vdash$        | +        | +        | ╫         | ╁            | -            | 4           |       | 102        | _         |          | _        |        | -        | _        | $\dashv$        | $\dashv$   | $\dashv$ |
| 19                             | 3                | $\vdash\vdash$   | ╁        | +        | ┢        | ├            | ┢        | ╌┼   | Η,       | -        |      | 53           | +       | $\vdash$        | +        | +        | ╁         | ╁╴           | -            | 2 m         |       | 102        | Н         |          |          | _      | $\dashv$ |          | $\vdash$        | $\dashv$   | $\dashv$ |
| H                              | 4                | $\vdash$         | ╁        | $\vdash$ | $\vdash$ | $\vdash$     | ┢        |  | ┨.       | -        |      | 54           | ╁       | $\vdash$        | ╅        | +        | ╁         | ╁            | -            |             |       | 103        | Н         | -        |          |        |          |          | $\dashv$        | $\dashv$   | $\dashv$ |
| H                              | 5                | $\vdash$         | 1        | +        | 1        |              | H        | $\vdash$   | 7/7      | -        | 1    | 55           | +       | $\vdash$        | $\dashv$ | $\dashv$ | 十         | $\vdash$     | -            |             |       | 105        | Н         |          |          |        |          |          | $\dashv$        | $\dashv$   | ᅱ        |
|                                | 6                |                  | T        | †        | T        | T            |          | Ħ  | ٦.       |          |      | 56           | $\top$  |                 | +        | $\top$   | $\dagger$ | 1            | _            | 3.1         |       | 106        |           |          |          |        |          |          |                 | $\neg$     | $\neg$   |
|                                | 7                |                  |          |          |          |              |          |  |          |          |      | 57           | Ť       | $\Box$          | T        | 1        | 7         |              | 1            |             |       | 107        |           |          |          |        |          |          | T               | $\neg$     | $\neg$   |
|                                | 8                |                  |          |          |          |              |          |  |          |          |      | 58           |         |                 |          |          | T         |              |              | ·           |       | 108        |           |          |          |        |          |          |                 | $\Box$     | $\neg$   |
|                                | 9                |                  |          |          |          |              |          |  | ] :      |          |      | 59           |         |                 |          |          |           |              |              | . 1         |       | 109        |           |          | ,        |        |          |          |                 |            |          |
|                                | 10               |                  |          |          |          |              |          |  | 3.5      | ·L       |      | 30           |         |                 | $\perp$  |          | $\perp$   | L            |              | 204<br>204  |       | 110        |           |          |          |        |          |          |                 | $\Box$     |          |
| $\sqcup \downarrow \downarrow$ | 11               |                  | _        | 1        | L        |              |          | $\sqcup$   |          |          |      | 31           |         |                 |          |          |           |              | Ш            |             |       | 111        | Ш         |          |          |        |          |          | $\Box$          | $\Box$     | $\Box$   |
| $\vdash \downarrow \downarrow$ | 12               |                  | _        | 1_       | _        | <u> </u>     | $\vdash$ | $\sqcup$   |          | -        |      | 52           | 4_      | $\sqcup$        |          | _        | 4         | ↓_           | _            |             |       | 112        | Ш         | Ш        |          |        | Ш        |          | Щ               |            | _        |
| $\vdash \vdash \vdash$         | 13               |                  | $\vdash$ | 1        | $\vdash$ | ⊢            | $\vdash$ | $\vdash \vdash$                                  | -        | <u> </u> |      | 33           | 4       | $\sqcup$        | $\perp$  | $\perp$  | +         | $\vdash$     | $\vdash$     | Ĥ           |       | 113        | $\square$ |          | Ш        |        | Щ        |          | Щ               | _          | _        |
| $\vdash \vdash \vdash$         | 14               | $\vdash\vdash$   | ⊢        | ┢        | -        | <del> </del> | -        | -  | -        | -        |      | 34           | +       | -               | +        | +        | +-        | ├-           | H            |             |       | 114        | Н         |          |          |        |          |          | $\vdash$        | $\dashv$   | $\dashv$ |
| $\vdash \vdash \vdash$         | 15<br>16         | $\vdash$         | $\vdash$ | +        | ┼        | ├-           | $\vdash$ |  | -        | -        |      | 35<br>36     | +-      | -               | - -      | - -      | +         | +-           | -            | 145°        |       | 115<br>116 | Н         | -        | _        | _      | -        | <b></b>  | $\vdash \vdash$ | $\dashv$   | $\dashv$ |
| $\vdash \vdash \vdash \vdash$  | 17               |                  | ╁        | ╁        | $\vdash$ | ╁            | $\vdash$ | <del>                                     </del> | -        | -        |      | 37 -         | +       |                 | +        |          | +         | +-           | -            | 4           |       | 117        | Н         | -        | -        |        | -        | _        | $\vdash$        | $\dashv$   | ᅱ        |
| H                              | 18               | $\vdash\vdash$   | $\vdash$ | ┝        | -        | ├            | -        | - -  | -11      | -        |      | 8            | ┿       | ╌               | +        | +        | ╁         | $\vdash$     |              |             |       | 118        | Н         | $\vdash$ |          |        | $\dashv$ |          | $\dashv$        | $\dashv$   | $\dashv$ |
| H                              | 19               | $\vdash$         | -        | ╁        | ├        | ┢            | Н        | $\vdash$   | -1       |          |      | 9            | +       | -               | +        | +        | ╁         | $\vdash$     | $\vdash$     | 2           |       | 119        | -         |          | -        |        | -        |          |                 | $\dashv$   | ┈┤       |
| H                              | 20               | $\vdash$         | ╁        | ╁        | ╁        |              | Н        | ┞╌┼╴   |          | -        |      | 70           | ╅       | $\vdash$        | $\dashv$ | +        | +         | +-           | -            | H           |       | 120        |           |          | -        |        | _        |          | $\vdash$        | $\dashv$   | ᅱ        |
| H                              | 21               |                  | T        | $\vdash$ | ┢        | $\vdash$     | Н        | $\vdash$   | ٦,       | _        |      | 71           | +       | $\vdash$        | $\dashv$ | +        | +         | +            | Н            | a           |       | 121        |           |          | $\neg$   | -      | $\neg$   | _        | -               | ᅥ          | $\dashv$ |
| Н                              | 22               |                  | T        | T        | T        | -            |          | $\vdash$   |          |          |      | 72           | $\top$  | $\vdash$        | _        | +        | +         | +            |              | Si.         |       | 122        | $\Box$    |          |          |        | $\neg$   | _        |                 | $\dashv$   | $\dashv$ |
|                                | 23               |                  |          | †        | T        |              |          |  |          |          |      | 73           | 1       | $\Box$          | _        | 十        | $\top$    | $\vdash$     | $\vdash$     | 1.7         |       | 123        |           |          | $\neg$   | _      |          |          | П               | ヿ          | $\neg$   |
| П                              | 24               |                  |          |          |          |              |          |  |          |          | 7    | 74           |         | $\Box$          |          |          | 1         |              |              |             |       | 124        |           | П        |          |        |          |          |                 | $\exists$  |          |
|                                | 25               |                  |          |          |          |              |          |  | 9.1      |          |      | 75           | T       |                 |          | 7        | Τ         |              |              |             |       | 125        |           |          |          |        |          |          |                 | $\neg$     | $\neg$   |
|                                | 26               |                  |          |          |          |              |          |  | 100      |          |      | 76           |         |                 |          |          |           |              |              |             |       | 126        |           |          |          |        |          |          |                 | $\exists$  |          |
| <u> </u>                       | 27               |                  | 丄        | <u> </u> | <u> </u> | L            |          |  | 7.5      |          |      | 77           |         |                 |          |          |           |              |              | 35          |       | 127        |           |          |          |        |          |          |                 | $\Box$     |          |
| V                              | 28               | $oxed{oxed}$     | _        | Ŀ        | <u> </u> |              |          |  | 4.5      |          |      | 78           |         | $\sqcup$        | _ _      |          | ┸         | $oxed{oxed}$ | $oxed{oxed}$ |             |       | 128        |           |          |          |        |          |          |                 |            |          |
|                                | <del>-29</del> - | $oxed{oxed}$     | _        | ┞        | ļ        | _            |          |  |          |          |      | 79           |         | Ш               | 4        | $\perp$  | $\bot$    |              | $oxed{oxed}$ | -#1         |       | 129        |           |          | $\Box$   |        |          |          | $\dashv$        | _          | _        |
| <u> </u>                       | 30-              |                  | <u> </u> | ⊢        | <u> </u> | ļ            | Ш        | $\sqcup$   |          | <u> </u> |      | 30           | _       | $\sqcup$        | $\bot$   | $\perp$  | +         | ļ.,          | Ш            |             |       | 130        |           |          |          | _      | _        |          | _               | 4          | _        |
| ŀ                              | 31-              |                  | ⊢        | ├-       | -        | ├            | $\vdash$ | $\vdash$   |          |          |      | 31           | -       | <b></b>         | -        | -        | +         | -            | $\vdash$     |             |       | 131        |           | -        | 4        | _      |          |          |                 | 4          | _        |
|                                | 32<br>33         |                  | ⊢        | ╀        | ⊢        | ⊢            | Н        | ╟╫   | 11,24    |          |      | 32           |         | $\vdash$        | +        | +        | +         | $\vdash$     | -            | 6           |       | 132        | $\square$ |          | -        | _      |          |          | -               |            | $\dashv$ |
| ├                              | 34               | <del>-   -</del> | $\vdash$ | $\vdash$ | $\vdash$ | ╁            | $\vdash$ | <del> -  -</del>                                 | - 2      | <u> </u> |      | 33<br>34     | +       | $\vdash$        | +        | +        | +-        | +            | $\vdash$     | Ž.          |       | 133<br>134 | Н         | -        | -        | _      |          | $\vdash$ | $\vdash \vdash$ | $\dashv$   | ᅴ        |
| <del></del>                    | 35               |                  | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$     | Н        |  | -1       | <b> </b> |      | 35           |         | $\vdash$        | +        | +        | +         | +-           | -            |             |       | 135        | $\vdash$  | -        | -        |        | $\dashv$ | $\dashv$ | $\dashv$        | $\dashv$   | $\dashv$ |
| <del>   </del>                 | 36               |                  | $\vdash$ | +        | $\vdash$ | $\vdash$     | $\vdash$ | - -  | -47      | a l      |      | 36           | +       | $\vdash$        | $\dashv$ | +        | +-        | +            | $\vdash$     | 5           |       | 136        | $\vdash$  | $\dashv$ | $\dashv$ | -      | $\dashv$ |          | $\vdash \vdash$ | $\dashv$   | $\dashv$ |
|                                | 37               | _                | $\vdash$ | t        | H        | ┢            | $\vdash$ | $\vdash \vdash$                                  |          |          |      | 37           | +       | $\vdash \vdash$ | +        | +        | +         | +            | $\vdash$     | 199         |       | 137        | $\dashv$  |          | $\dashv$ |        | -        | -        | $\vdash$        | $\dashv$   | ᅱ        |
|                                | 38               |                  | $\vdash$ | 1        |          | T            | Н        | -  | -        |          |      | 38           | +       | $\vdash \vdash$ | +        | +        | +         |              | $\vdash$     | <i>i</i> ;= |       | 138        | $\vdash$  | -        | ᅱ        | -      | $\vdash$ |          | $\vdash$        | $\dashv$   | $\dashv$ |
|                                | 39               | -                | 1        | 1        | Т        | T            | П        | $\vdash$   | -        |          |      | 39           | $\top$  | $\vdash$        | +        | $\top$   | $\dagger$ | П            | Н            |             |       | 139        | $\vdash$  | $\neg$   | $\dashv$ |        | $\dashv$ |          |                 | $\dashv$   | $\dashv$ |
|                                | 40               |                  |          |          |          |              | П        | $\sqcap$   | <u> </u> |          |      | 90           | 1       | $\Box$          | $\top$   | $\top$   | $\top$    |              | П            | 1           |       | 140        | $\dashv$  | $\neg$   | $\dashv$ | $\neg$ |          |          | $\dashv$        | 寸          | $\dashv$ |
|                                | 41               |                  |          |          |          |              | П        |  |          |          | 9    | 91           |         |                 |          |          |           |              |              |             |       | 141        |           | $\neg$   |          | $\neg$ |          |          |                 | $\dashv$   |          |
|                                | 42               |                  |          |          |          | L            |          |  | 35       |          | 5    | 2            |         |                 |          |          |           |              |              |             |       | 142        |           |          |          |        |          |          |                 | 丁          |          |
|                                | 43               |                  |          |          |          |              |          |  |          |          | 9    | 93           |         |                 | $\perp$  | $\perp$  |           |              |              |             |       | 143        |           |          |          |        |          |          |                 | $\Box$     |          |
|                                | 44               |                  | oxdot    | <u> </u> | L        | <u> </u>     | Ш        |  |          |          |      | )4           |         |                 | $\perp$  |          |           |              |              |             |       | 144        |           |          |          |        |          |          |                 | $\Box$     |          |
| 7                              | 45               |                  |          | _        | L        | _            | Ш        | ot   |          | _        |      | 5            |         |                 | $\perp$  | $\perp$  |           |              | Ш            |             |       | 145        |           |          | _]       |        | _]       |          |                 | $\bot$     | _        |
|                                | 46               |                  | <u>L</u> | ┞-       | $\vdash$ | <u> </u>     | Ш        | $oxed{oxed}$                                     |          | _        |      | 96           | $\perp$ |                 | $\perp$  | $\perp$  | $\perp$   | $\sqcup$     |              |             |       | 146        |           |          | _        | _      |          |          |                 | _          | Ц        |
|                                | 47               | _ _              | <u> </u> | ├        | <u> </u> | <u> </u>     | $\sqcup$ | $\sqcup \!\!\! \perp$                            |          |          |      | 7            | 4       | $\sqcup$        | $\bot$   | $\perp$  | +         | Ш            | Ш            |             |       | 147        |           | _        | _        | _      |          |          | $\Box$          | _          | _        |
|                                | 48               | - -              | $\vdash$ | ├-       | _        | <u> </u>     | $\sqcup$ | $\vdash \vdash$                                  | - 1      | _        |      | 8            | $\bot$  | $\vdash$        | +        | +        | 4         | $\sqcup$     |              |             |       | 148        | _         |          |          | _      | $\dashv$ | _        | _               | 4          | ᆜ        |
| -                              | 49<br>50         | $\vdash$         | -        | $\vdash$ | -        | <u> </u>     | $\vdash$ | ⊢-   |          | -        |      | 9            | +       | $\dashv$        | +        | +        | +         | Н            | Щ            | .4          |       | 149        | $\sqcup$  |          |          |        |          |          |                 | -          | $\dashv$ |
|                                | ວບ               |                  |          | <u></u>  | L        |              | Ш        |  | ett.     |          | 11   | 00           |         |                 | - 1      |          |           |              |              | 4           |       | 150        |           |          | ı        |        | ۱ ا      |          | 1               | $_{\perp}$ |          |